

**Amendments to the Claims:**

Please replace all prior claims versions and listings with the following:

**Listing of the Claims:**

1.-73. (cancelled)

74. **(previously presented)** A diesel particulate filter comprising a plugged, wall-flow honeycomb filter body composed of cordierite and having a plurality of parallel end-plugged cell channels traversing the body from a frontal inlet end to an outlet end thereof, wherein:

the filter exhibits a CTE (25-800°C) of less than  $13 \times 10^{-7}/^{\circ}\text{C}$ , a bulk filter density of less than  $0.60 \text{ g/cm}^3$ , a median pore diameter,  $d_{50}$ , of less than 15 micrometers, a porosity and pore size distribution that satisfy the relationship  $P_m \leq 3.75$ , wherein  $P_m$  is equal to  $10.2474\{1/[(d_{50})^2(\%\text{porosity}/100)]\} + 0.0366183(d_{90}) - 0.00040119(d_{90})^2 + 0.468815(100/\%\text{porosity})^2 + 0.0297715(d_{50}) + 1.61639(d_{50}-d_{10})/d_{50}$ , wherein  $d_{10}$ , and  $d_{90}$  are pore diameters at 10% and 90% of the pore size distribution on a volumetric basis, and  $d_{10} < d_{50} < d_{90}$ .

75. **(previously presented)** A diesel particulate filter in accordance with claim 74 wherein the median pore diameter,  $d_{50}$  is less than 12 micrometers.

76. **(previously presented)** A diesel particulate filter comprising a plugged, wall-flow honeycomb filter body composed of cordierite and having a plurality of parallel end-plugged cell channels traversing the body from a frontal inlet end to an outlet end thereof, wherein:

the filter exhibits a CTE (25-800°C) of less than  $13 \times 10^{-7}/^{\circ}\text{C}$ , a bulk filter density of less than  $0.60 \text{ g/cm}^3$ , a median pore diameter,  $d_{50}$ , of less than 25 micrometers, a porosity and pore size distribution that satisfy the relationship  $P_m \leq 3.75$ , wherein  $P_m$  is equal to  $10.2474\{1/[(d_{50})^2(\%\text{porosity}/100)]\} + 0.0366183(d_{90}) - 0.00040119(d_{90})^2 + 0.468815(100/\%\text{porosity})^2 + 0.0297715(d_{50}) + 1.61639(d_{50}-d_{10})/d_{50}$ , wherein  $d_{10}$ , and  $d_{90}$  are pore diameters at 10% and 90% of the pore size distribution on a volumetric basis, and  $d_{10} < d_{50} < d_{90}$  and wherein  $d_{90}$  is less than 40 micrometers.

77. **(previously presented)** A diesel particulate filter in accordance with claim 76 wherein  $d_{90}$  is less than 30 micrometers.

78. **(previously presented)** A diesel particulate filter in accordance with claim 77 wherein  $d_{90}$  is less than 20 micrometers.

79. **(new)** A diesel particulate filter in accordance with claim 76 wherein the filter exhibits a CTE (25-800°C) of less than or equal to  $5.5 \times 10^{-7}/^{\circ}\text{C}$  and a %porosity of greater than or equal to 55.2 %.

80. **(new)** A diesel particulate filter in accordance with claim 76 wherein the filter exhibits a CTE (25-800°C) of less than or equal to  $5.5 \times 10^{-7}/^{\circ}\text{C}$  and a %porosity of greater than or equal to 56.5 %.

81. **(new)** A diesel particulate filter in accordance with claim 76 wherein the filter exhibits a CTE (25-800°C) of less than or equal to  $4.2 \times 10^{-7}/^{\circ}\text{C}$  and greater than or equal to 74.5 % of the % porosity has a pore size of greater 10  $\mu\text{m}$  and less than 50  $\mu\text{m}$ .

82. **(new)** A diesel particulate filter in accordance with claim 76 wherein the filter exhibits a CTE (25-800°C) of less than or equal to  $4.2 \times 10^{-7}/^{\circ}\text{C}$  and a %porosity of greater than or equal to 59.4 %.

83. **(new)** A diesel particulate filter in accordance with claim 76 wherein the filter exhibits a CTE (25-800°C) of less than or equal to  $4.3 \times 10^{-7}/^{\circ}\text{C}$  and a %porosity of greater than or equal to 56.5 %.

84. **(new)** A diesel particulate filter in accordance with claim 76 wherein the filter exhibits a CTE (25-800°C) of greater than  $4.0 \times 10^{-7}/^{\circ}\text{C}$  and less than  $7.0 \times 10^{-7}/^{\circ}\text{C}$  and a %porosity of greater than or equal to 69.7 %.